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1 [Measuring the effects of internet path faults on reactive routing](#)



Nick Feamster, David G. Andersen, Hari Balakrishnan, M. Frans Kaashoek

 June 2003 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2003 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '03**, Volume 31 Issue 1

Publisher: ACM Press

Full text available: pdf(394.56 KB)

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Empirical evidence suggests that reactive routing systems improve resilience to Internet path failures. They detect and route around faulty paths based on measurements of path performance. This paper seeks to understand *why* and under *what circumstances* these techniques are effective. To do so, this paper correlates end-to-end active probing experiments, loss-triggered traceroutes of Internet paths, and BGP routing messages. These correlations shed light on three questions about Inte ...

2 [DNS: Availability, usage, and deployment characteristics of the domain name system](#)



Jeffrey Pang, James Hendricks, Aditya Akella, Roberto De Prisco, Bruce Maggs, Srinivasan Seshan

 October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**

Publisher: ACM Press

Full text available: pdf(856.34 KB)

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The Domain Name System (DNS) is a critical part of the Internet's infrastructure, and is one of the few examples of a robust, highly-scalable, and operational distributed system. Although a few studies have been devoted to characterizing its properties, such as its workload and the stability of the top-level servers, many key components of DNS have not yet been examined. Based on large-scale measurements taken from servers in a large content distribution network, we present a detailed study of ...

Keywords: DNS, availability, federated

3 [Lightweight bug localization with AMPLE](#)



Valentin Dallmeier, Christian Lindig, Andreas Zeller

 September 2005 **Proceedings of the sixth international symposium on Automated analysis-driven debugging AADEBUG'05**

Publisher: ACM Press

Full text available:  [pdf\(414.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

AMPLE locates likely failure-causing classes by *comparing method call sequences* of passing and failing runs. A difference in method call sequences, such as multiple deallocation of the same resource, is likely to point to the erroneous class. Such sequences can be collected from arbitrary Java programs at low cost; comparing object-specific sequences predicts defects better than simply comparing coverage. AMPLE comes as a plug-in for the Java IDE Eclipse that is automatically invoked as s ...


4 The costs and limits of availability for replicated services



Haifeng Yu, Amin Vahdat

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01**, Volume 35 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.46 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As raw system and network performance continues to improve at exponential rates, the utility of many services is increasingly limited by availability rather than performance. A key approach to improving availability involves replicating the service across multiple, wide-area sites. However, replication introduces well-known tradeoffs between service consistency and availability. Thus, this paper explores the benefits of dynamically trading consistency for availability using a *continuous consistency* ...

5 Workshop and conference summaries: 6th ICSE Workshop on Component-Based



Software Engineering: automated reasoning and prediction

Ivica Crnkovic, Heinz Schmidt, Judith Stafford, Kurt Wallnau

May 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(292.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This report gives an overview of the 6th ICSE Workshop on Component-Based Software Engineering held at 25th International Conference on Software Engineering. The workshop brought together researchers and practitioners from three communities: component technology, software architecture, and software certification. The primary goal of the workshop was to continue clarifying the concepts, identifying the main challenges and findings of predictable assembly of certifiable software compone ...

6 Session C1: information visualization: Case study: visual debugging of cluster hardware

Patricia Crossno, Rena Haynes

October 2001 **Proceedings of the conference on Visualization '01**

Publisher: IEEE Computer Society

Full text available:  [pdf\(618.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
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This paper presents a novel use of visualization applied to debugging the Cplant™ cluster hardware at Sandia National Laboratories. As commodity cluster systems grow in popularity and grow in size, tracking component failures within the hardware will become more and more difficult. We have developed a tool that facilitates visual debugging of errors within the switches and cables connecting the processors. Combining an abstract system model with color-coding for both error and job informat ...

Keywords: design analysis, hardware modeling, performance optimization, visual debugging

7 E-textiles: Challenges and opportunities in electronic textiles modeling and optimization



Diana Marculescu, Radu Marculescu, Pradeep K. Khosla

June 2002 **Proceedings of the 39th conference on Design automation**

Publisher: ACM Press

Full text available: pdf(769.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

This paper addresses an emerging new field of research that combines the strengths and capabilities of electronics and textiles in one: electronic textiles, or e-textiles. E-textiles, also called Smart Fabrics, have not only "wearable" capabilities like any other garment, but also local monitoring and computation, as well as wireless communication capabilities. Sensors and simple computational elements are embedded in e-textiles, as well as built into yarns, with the goal of gathering sensitive ...

8 Ecxpert: exploiting event correlation in telecommunications



Yossi Nygate

September 1994 **ACM SIGAPP Applied Computing Review**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(800.69 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Today's competitive market place has forced the telecommunications industry to improve their service and reliability. One step that telecommunications companies have taken to reduce network failures is the installation of operations centers to collect data from network elements. These centers are staffed by network managers who monitor network activity by correlating alarms across various operational disciplines (switch, facility, traffic) and relating them to a common cause. Accurate analysis i ...

Keywords: C++, integrated network management techniques, meta-programming, prolog

9 Software reliability and dependability: a roadmap



Bev Littlewood, Lorenzo Strigini

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Publisher: ACM Press

Full text available: pdf(1.57 MB) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

Keywords: COTS reliability, dependability modelling and assessment, diversity, reliability engineering

10 Distributed packet switching in arbitrary networks



Yuval Rabani, Éva Tardos

July 1996 **Proceedings of the twenty-eighth annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: pdf(1.38 MB) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

11 Consistent and automatic replica regeneration



Haifeng Yu, Amin Vahdat



February 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(372.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Reducing management costs and improving the availability of large-scale distributed systems require automatic replica *regeneration*, that is, creating new replicas in response to replica failures. A major challenge to regeneration is maintaining consistency when the replica group changes. Doing so is particularly difficult across the wide area where failure detection is complicated by network congestion and node overload. In this context, this article presents Om, the first read/write peer-

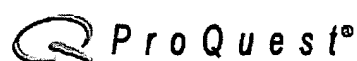
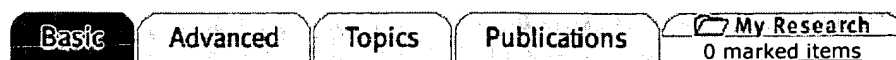
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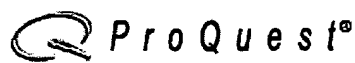
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